

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531834

Luminaire Tested: **GALN-SA7A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20441 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

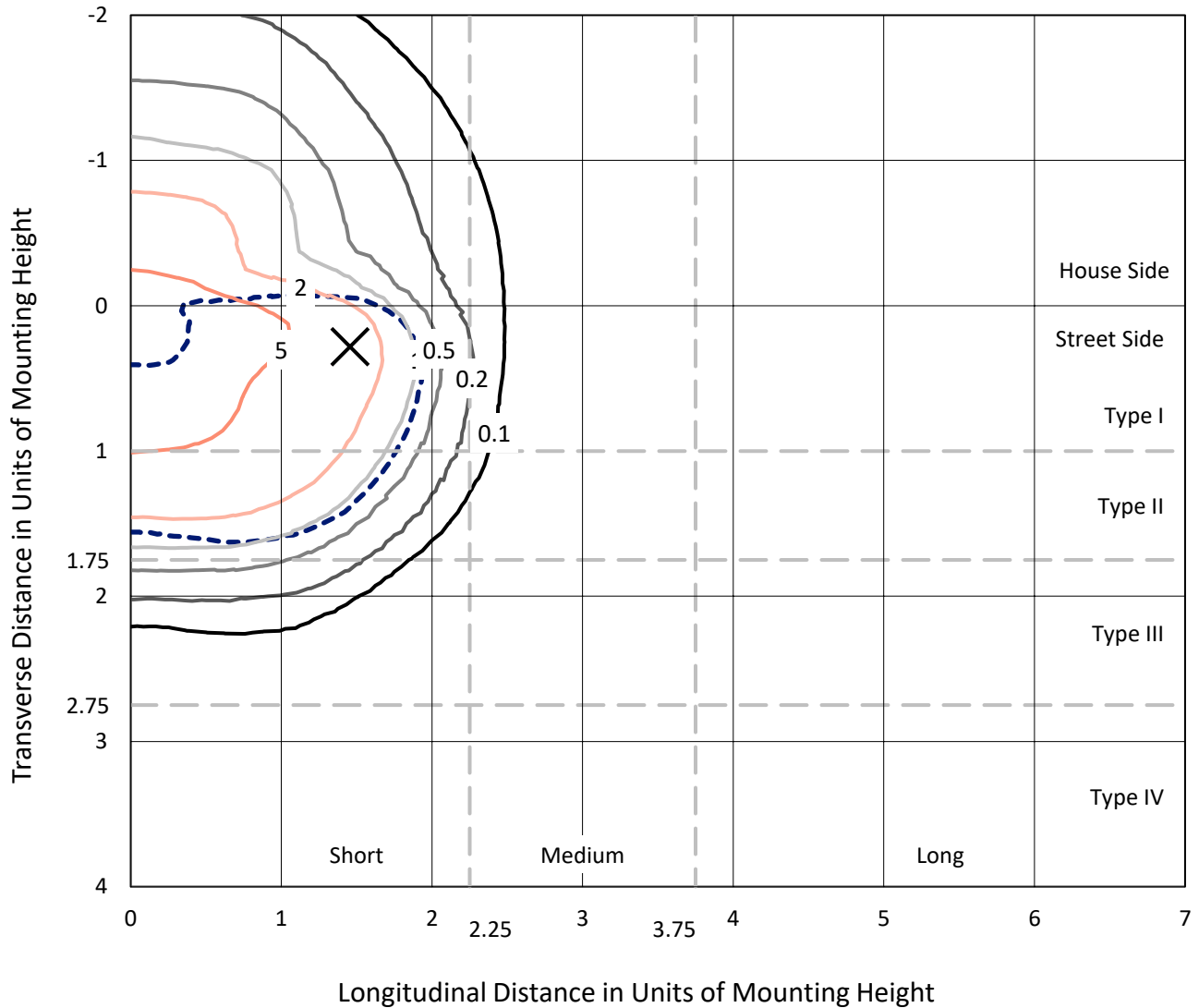
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

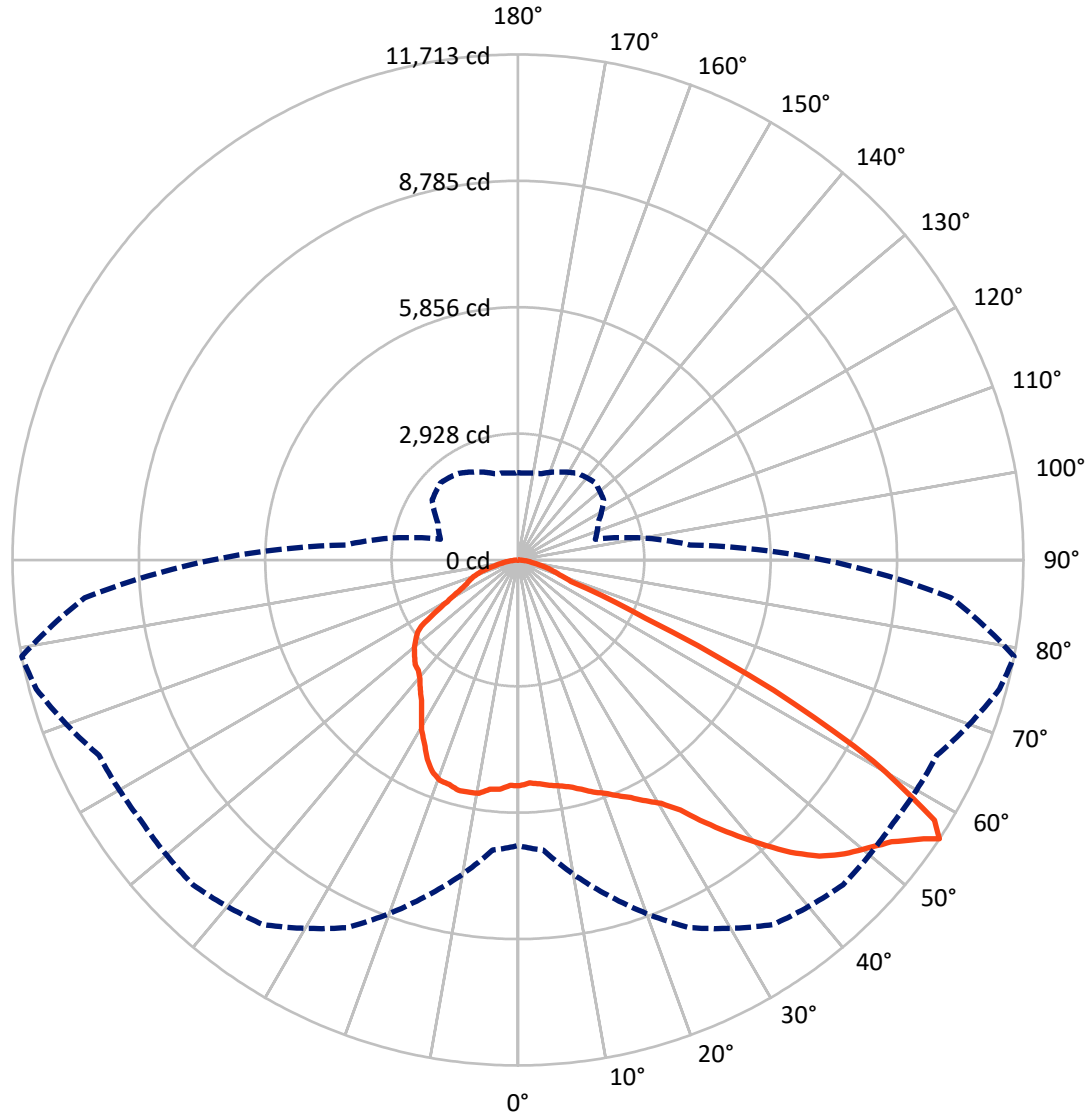
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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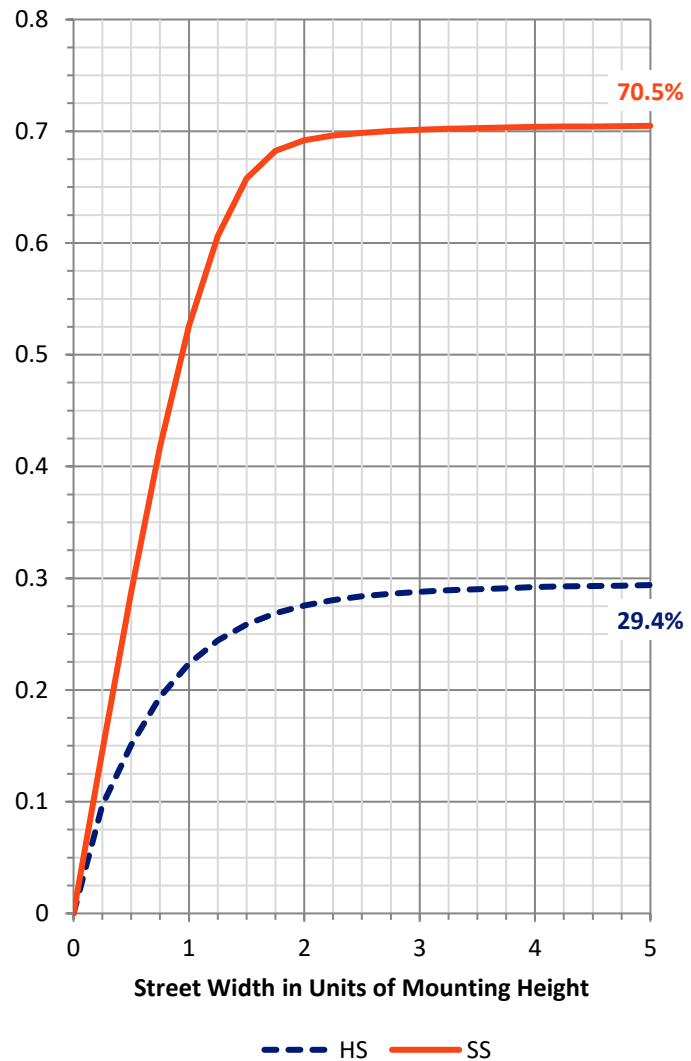
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6036.7	0.0	6036.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	14404.3	0.0	14404.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	20441.0	0.0	20441.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	2.3
10°-20°	1301.3	6.4
20°-30°	2226.3	10.9
30°-40°	3412.1	16.7
40°-50°	4611.5	22.6
50°-60°	5296.5	25.9
60°-70°	2414.3	11.8
70°-80°	595.2	2.9
80°-90°	108.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20441.0	100.0
0°-180°	20441.0	100.0

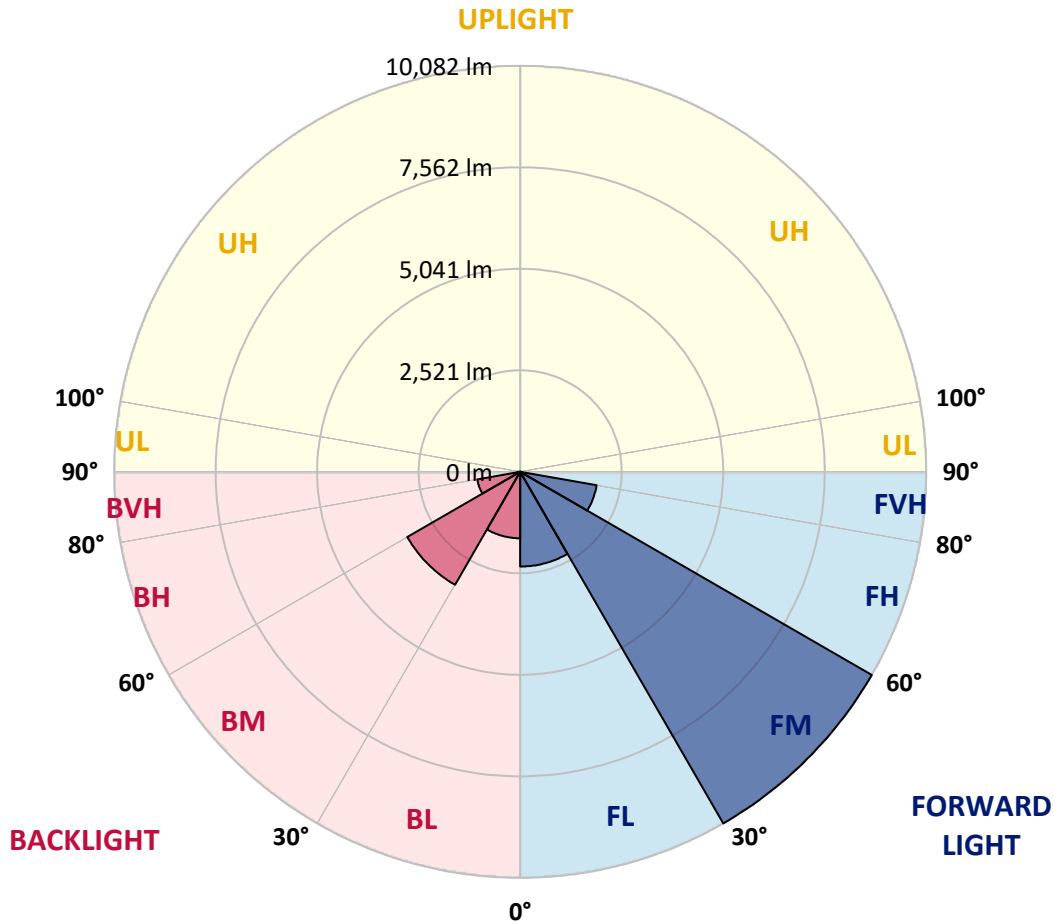


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.9	11.5			
FM (30°-60°)	10082.1	49.3			
FH (60°-80°)	1927.1	9.4			G2/5000
FVH (80°-90°)	43.2	0.2			G1/100
BL (0°-30°)	1651.3	8.1	B3/2500		
BM (30°-60°)	3238.0	15.8	B3/5000		
BH (60°-80°)	1082.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	65.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0
2.5°	4975.4	4962.7	4993.2	5016.2	5044.2	5079.8	5097.6	5107.8	5196.9	5174.0	5242.8
5°	4868.5	4835.4	4858.3	4876.1	4924.5	4967.8	5016.2	5092.5	5174.0	5209.7	5293.7
7.5°	4774.3	4756.4	4751.3	4764.1	4830.3	4886.3	4970.3	5082.4	5214.8	5273.3	5321.7
10°	4618.9	4593.5	4631.7	4715.7	4733.5	4850.6	4947.4	5107.8	5222.4	5324.3	5466.8
12.5°	4550.2	4524.7	4532.4	4580.7	4705.5	4817.5	4932.1	5112.9	5354.8	5395.6	5586.5
15°	4659.7	4634.2	4641.9	4629.1	4748.8	4807.4	4988.1	5214.8	5446.5	5515.2	5718.9
17.5°	4909.2	4911.8	4878.7	4850.6	4822.6	4947.4	5072.2	5275.9	5482.1	5655.3	5808.0
20°	5385.4	5301.3	5235.1	5077.3	5034.0	5087.5	5245.3	5441.4	5627.3	5769.9	5943.0
22.5°	5752.0	5759.7	5665.5	5405.7	5311.5	5334.4	5469.4	5629.8	5833.5	5935.4	6134.0
25°	6284.2	6230.7	6128.9	5922.6	5711.3	5729.1	5828.4	5973.6	6029.6	6100.9	6317.3
27.5°	6770.5	6785.8	6584.7	6391.1	6128.9	6078.0	6256.2	6281.7	6187.4	6322.4	6396.2
30°	7264.5	7251.8	7119.4	6892.8	6635.6	6645.8	6724.7	6599.9	6470.1	6543.9	6594.8
32.5°	7776.3	7631.2	7626.1	7422.4	7226.3	7132.1	7035.3	7096.5	6895.3	6910.6	6862.2
35°	8186.3	8206.6	8089.5	7944.4	7847.6	7682.1	7417.3	7526.8	7488.6	7470.8	7262.0
37.5°	8484.2	8405.2	8463.8	8415.4	8323.8	8117.5	7842.5	7946.9	7964.7	8051.3	7809.4
40°	8728.6	8695.5	8850.8	8876.3	8812.6	8367.0	7873.1	8183.7	8451.1	8639.5	8351.8
42.5°	8845.7	8917.0	9080.0	9276.1	9133.5	8657.3	8030.9	8364.5	8960.3	9258.2	8866.1
45°	9003.6	8912.0	9153.8	9512.9	9515.4	8901.8	8183.7	8608.9	9357.5	9790.4	9217.5
47.5°	8843.2	8889.0	9138.6	9594.4	9711.5	9158.9	8596.2	8955.2	9795.5	10180.0	9543.4
50°	8484.2	8575.8	9031.6	9505.2	9859.2	9431.4	9069.8	9329.5	10200.4	10493.2	9596.9
52.5°	8109.9	8160.8	8873.8	9574.0	9925.4	9782.8	9703.8	9846.4	10694.3	10847.1	9663.1
55°	7091.4	7333.3	8351.8	9543.4	10248.7	10416.8	10355.7	10564.5	11254.5	11407.3	10024.7
56°	6620.3	6747.6	8038.6	9400.8	10312.4	10648.5	10618.0	10712.2	11552.4	11712.9	10080.7
57.5°	5749.5	5759.7	6854.6	8769.4	10073.1	10717.3	10686.7	10760.5	11493.9	11384.4	9589.3
60°	3597.9	3755.8	4664.8	6745.1	8565.7	9943.2	10116.3	9523.1	9691.1	9459.4	7460.6
62.5°	1863.9	1841.0	2444.4	3944.2	5685.8	7119.4	7279.8	7251.8	6992.1	6653.4	4873.6
65°	929.4	934.5	1278.2	1953.0	2912.9	3727.7	4175.9	4224.3	3534.2	3251.6	2312.0
67.5°	674.8	700.2	919.2	1194.2	1372.4	1535.4	1881.7	1846.0	1397.9	1329.2	1232.4
70°	524.5	547.4	746.1	911.6	827.5	827.5	901.4	931.9	995.6	1023.6	1056.7
72.5°	381.9	399.8	570.4	628.9	542.4	583.1	674.8	746.1	812.3	822.4	860.6
75°	262.3	277.5	374.3	346.3	325.9	402.3	494.0	560.2	608.6	634.0	656.9
77.5°	170.6	175.7	213.9	180.8	208.8	259.7	320.8	376.8	425.2	445.6	450.7
80°	76.4	84.0	91.7	114.6	145.1	185.9	229.2	275.0	305.6	313.2	328.5
82.5°	43.3	43.3	56.0	81.5	106.9	135.0	165.5	198.6	234.3	241.9	239.3
85°	22.9	22.9	33.1	48.4	66.2	78.9	76.4	78.9	84.0	96.8	94.2
87.5°	7.6	7.6	10.2	10.2	12.7	15.3	12.7	17.8	22.9	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0	5230.0
2.5°	5222.4	5245.3	5214.8	5281.0	5281.0	5268.2	5204.6	5224.9	5240.2	5240.2	5253.0
5°	5321.7	5314.1	5334.4	5255.5	5207.1	5189.3	5084.9	5034.0	4990.7	4988.1	4950.0
7.5°	5377.7	5357.4	5349.7	5291.2	5077.3	4947.4	4723.3	4593.5	4565.5	4466.2	4504.4
10°	5466.8	5505.0	5466.8	5148.6	4850.6	4552.7	4333.8	4132.6	4053.7	3990.0	3951.8
12.5°	5650.2	5632.4	5410.8	4980.5	4562.9	4209.0	3883.1	3671.7	3592.8	3536.8	3531.7
15°	5805.5	5716.4	5377.7	4715.7	4114.8	3737.9	3470.6	3320.3	3284.7	3289.8	3312.7
17.5°	5859.0	5797.9	5204.6	4440.7	3781.2	3338.2	3213.4	3190.5	3223.6	3261.8	3272.0
20°	5943.0	5846.2	5133.3	4066.4	3368.7	3088.6	3081.0	3162.5	3223.6	3279.6	3287.2
22.5°	6118.7	5874.2	4901.6	3712.5	3086.1	3014.8	3088.6	3157.4	3251.6	3297.4	3256.7
25°	6169.6	5813.1	4575.7	3287.2	2907.8	2969.0	3047.9	3142.1	3208.3	3233.8	3251.6
27.5°	6212.9	5718.9	4135.1	3004.6	2851.8	2966.4	3047.9	3126.8	3162.5	3185.4	3205.8
30°	6335.1	5690.9	3753.2	2816.2	2816.2	2915.5	3019.9	3040.2	3088.6	3116.6	3152.3
32.5°	6396.2	5497.4	3361.1	2696.5	2780.5	2940.9	2948.6	2986.8	2989.3	3012.2	2974.0
35°	6556.7	5359.9	2997.0	2609.9	2795.8	2915.5	2953.7	2930.8	2806.0	2744.9	2757.6
37.5°	6673.8	5291.2	2734.7	2599.7	2798.4	2943.5	2963.9	2790.7	2660.9	2559.0	2584.5
40°	6989.5	5120.6	2536.1	2581.9	2821.3	2974.0	2918.0	2729.6	2495.3	2390.9	2373.1
42.5°	7231.4	4998.3	2411.3	2561.5	2839.1	3017.3	2895.1	2607.4	2368.0	2271.3	2296.7
45°	7511.5	4970.3	2345.1	2566.6	2869.6	3040.2	2867.1	2513.2	2258.5	2220.3	2212.7
47.5°	7610.8	4769.2	2273.8	2523.4	2862.0	3032.6	2772.9	2441.9	2217.8	2222.9	2243.3
50°	7445.3	4562.9	2220.3	2434.2	2811.1	2963.9	2625.2	2347.7	2194.9	2258.5	2294.2
52.5°	7234.0	4351.6	2110.9	2314.6	2706.7	2856.9	2556.5	2342.6	2172.0	2151.6	2159.2
55°	7297.6	4178.4	1958.1	2151.6	2538.6	2658.3	2480.1	2294.2	2116.0	2039.6	2065.0
56°	7091.4	4000.2	1858.8	2049.7	2424.1	2531.0	2441.9	2250.9	2070.1	2019.2	2019.2
57.5°	6508.3	3401.8	1728.9	1886.8	2182.2	2309.5	2368.0	2225.4	2019.2	1930.1	1932.6
60°	4799.7	2419.0	1550.7	1662.7	1807.9	1909.7	2182.2	2154.1	1891.9	1830.8	1807.9
62.5°	2958.8	1767.1	1423.4	1466.7	1540.5	1624.5	1904.6	1950.4	1756.9	1690.7	1675.4
65°	1657.6	1352.1	1326.6	1344.4	1380.1	1423.4	1581.2	1683.1	1550.7	1448.8	1443.7
67.5°	1212.0	1209.5	1229.8	1245.1	1260.4	1260.4	1298.6	1339.3	1321.5	1240.0	1232.4
70°	1077.1	1084.7	1100.0	1102.5	1107.6	1089.8	1059.2	1046.5	1066.9	1016.0	1005.8
72.5°	888.6	914.1	931.9	934.5	906.5	883.6	842.8	799.5	784.3	774.1	771.5
75°	682.4	700.2	707.9	705.3	695.1	662.0	613.7	570.4	542.4	511.8	527.1
77.5°	460.9	486.3	499.1	499.1	483.8	432.9	409.9	376.8	348.8	315.7	320.8
80°	323.4	341.2	361.6	359.0	333.6	308.1	275.0	244.4	221.5	196.1	193.5
82.5°	241.9	252.1	262.3	257.2	239.3	213.9	191.0	163.0	137.5	119.7	119.7
85°	86.6	94.2	114.6	119.7	129.9	129.9	109.5	91.7	73.8	61.1	61.1
87.5°	25.5	25.5	28.0	28.0	25.5	28.0	22.9	25.5	28.0	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)